## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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(Multiple sheets used when necessary)

SHEET 1 OF 3

2004/0127406 A1

2006/0003446

2006/0128017 A1

2006/0148081

2006/0276420 A1

2007/0281355

Application No. 10/584.338 Filing Date January 9, 2007 D'Amour et al. First Named Inventor Art Unit 1651 Examiner Unassigned Attorney Docket No. CYTHERA.045NP

			U.S. PATENT	DOCUMENTS	
Examiner Initials	Cite No.	Document Number Number - Kind Code (if known) Example: 1,234,567 B1	Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear
	1	6,458,589 B1	10/01/2002	Rambhatla et al.	
	2	6,506,574 B1	01/14/20003	Rambhatla et al.	
	3	6,921,811	07/26/05	Zamora, et al.	
	4	7,153,684	12/26/06	B.L.M. Hogan	
	5	7,256,042 B2	08/14/2007	Rambhatla et al.	
	6	2003/0138948	07/01/03	Fisk, et al.	

07/01/04

01/01/06

06/15/06

07/01/06

12/07/06

12/06/2007

Presnell, et al.

Keller et al.

Zwaka, et al.

Kelly, et al.

Keller, et al.

Dalton et al.

FOREIGN PATENT DOCUMENTS						
Initials No Country Code-Number-Kind Code			Publication Date MM-DD-YYYY	Name of Patentee or Applicant	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T <sup>1</sup>
	13	WO 98/30679	7/16/1998	Life Technologies Inc.		
	14	WO 2005/097980 A2	10/20/2005	Geron Corporation		
	15	WO 2006/020919 A2	02/23/2006	University of Georgia Research Foundation, Inc.		
	16	WO 2007/002210 A2	01/04/2007	Bresagen, Inc.; University of Georgia Research Foundation, Inc.; Cythera, Inc.; Robarts Research Institute		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), litle of the article (when appropriate), litle of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	17	Assady et al. "Insulin production by human embryonic stem cells" (2001) Diabetes 50(8): 1691-1697	
	18	Bendali, et al. "IGF and FGF Cooperatively Establish Regulatory Stem Cell Niche of Pluripotent Human Cells In Vitro." Nature (2007), 448; 1015-1021.	

Examiner Signature	Date Considered
*Examiner: Initial if reference considered, whether or not citation is in conform in conformance and not considered. Include copy of this form with next commu	

		Application No.	10/584,338
	INFORMATION DISCLOSURE	Filing Date	January 9, 2007
STATEMENT BY ADDI	STATEMENT BY APPLICANT	First Named Inventor	D'Amour et al.
	STATEMENT BY AFFEICANT	Art Unit	1651
	(Multiple sheets used when necessary)	Examiner	Unassigned
	SHEET 2 OF 3	Attorney Docket No.	CVTHER A DASNIP

NON PATENT LITERATURE DOCUMENTS

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>1</sup>
	19	Conley et al. "Bmps Regulate Differentiation of a Putative Visceral Endoderm Layer Within Human Embryonic Stem-Cell-Derived Embryoid Bodies" (2007) Biochem Cell Biol 85: 121-132.	
	20	Czyz et al. "Embryonic Stem Cell Differentiation: The Role Of Extracellular Factors" (2001)Differentiation 68(4-5):167-174	
	21	Daheron et al. "LIF/STAT3 Signaling Fails To Maintain Self-Renewal Of Human Embryonic Stem Cells" Stem Cells 22, 770-8 (2004).	
	22	D'Amour et al. "Production Of Pancreatic Hormone-Expressing Endocrine Cells From Human Embryonic Stem Cells" (November 1, 2006) Nature Biotechnology 24, 1392 - 1401.	
	23	de Caestecker, M. The transforming growth factor-beta superfamily of receptors. Cytokine Growth Factor Rev 15, 1-11 (2004).	
	24	Freund, et al. "Insulin Redirect Differentiation from Cardiogenic Mesoderm and Endoderm to Neuroectoderm in Differentiating Human Embryonic Stem Cells." Stem Cells (2007), published online December 20, 2007.	
	25	Humphrey et al. "Maintenance of Pluripotency In Human Embryonic Stem Cells is STAT3 Independent" (2004) Stem Cells 22: 522-30.	
	26	Jones et al. "Differences Between Human and Mouse Alpha-Fetoprotein Expression During Early Development" (2001) J. Anat. 198: 555-9.	
	27	Keller, G.M. "In vitro differentiation of embryonic stem cells" (1995) Curr Op Cell Biol 7: 862-896.	
	28	Matsuda T, et al. "STAT3 Activation is Sufficient to Maintain an Undifferentiated State of Mouse Embryonic Stem Cells" (August 2, 1999) EMBO J, 18(15):4261-9.	
	29	McGrath et al. "Expression of Homeobox Genes, Including and Insulin Promoting Factor, in the Murine Yolk Sac at the Time of Hematopoietic Initiation" (1997) Mol Reprod Dev 48: 145-153.	
	30	McLean et al. "Activin A Efficiently Specifies Definitive Endoderm from Human Embryonic Stem Cells Only When Phosphtidylinositol 3-Kinase Signaling Is Suppressed" (2007) Stem Cells 25: 29-38.	
	31	Micallef Suzanne, et al. "Retinoic Acid Induces Pdx1-positive Endoderm in Differentiating Mouse Embryonic Stem Cells." Diabetes. February 2005, vol. 54, no. 2, pp. 301-305	
	32	Millonig, et al. "Molecular Analysis of the Distal Enhancer of the Mouse Alpha-Fetoprotein Gene" (1995) Mol. Cell Biol. 15: 3848-3856.	
	33	Rambhatta, et al. "Generation of Hepatocyte-Like Cells From Human Embryonic Stem Cells." Cell Transplantation (2003), vol. 12, pages 1-11.	
	34	Roche et al. "Ectodermal commitment of insulin-producing cells derived from mouse embryonic stem cells" Faseb J (2005) 19: 1341-3	

Examiner Signature	Data Considered

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Multiple sheets used when necessary)

SHEET 3 OF 3

	PTO/SB/08 Equivalent
Application No.	10/584,338
Filing Date	January 9, 2007
First Named Inventor	D'Amour et al.
Art Unit	1651
Examiner	Unassigned
Attorney Docket No.	CYTHERA 045NP

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No.		
	35	Segev, Hanna et al. "Differentiation of Human Embryonic Stem Cells into Insulin-Producing Clusters." Stem Cells (2004), vol. 22, pages 265-274.	
	36	Shi, Yan, et al. "Inducing Embryonic Stem Cells to Differentiate into Pancreatic β Cells by a Novel The-Step Approach with Activin A and All-Trans Retinoic Acid." Stem Cells (2005), vol. 23, pages 656-652.	
	37	Tam et al., Early endoderm development in vertebrates: lineage differentation and morphogenetic function. Curr Opin Genet Dev. 13(4): 393-400, 2003.	
	38	Urbach et al. "Modeling Lesch-Nyhan Disease by Gene Targeting in Human Embryonic Stem Cells" (2004) Stem Cells 22:635-641.	
	39	Vallier et al. "Activin/Nodal and FGF Pathways Cooperate to Maintain Pluripotency of Human Embryonic Stem Cells" (2005) J Cell Sci. 118: 4495-509.	
	40	Vallier, L., Reynolds, D. & Pedersen, R.A. Nodal inhibits differentiation of human embryonic stem cells along the neuroectodermal default pathway. Dev Biol 275, 403-421 (2004).	
	41	Wang, et al. "Self-Renewal of Human embryonic Stem Cells Requires Insulin-Like Growth Factor-1 Receptor and ERBB2 Receptor Signaling." Blood (2007), 110, 4110-4119.	
	42	Wei, C.L. et al. Transcriptome profiling of human and murine ESCs identifies divergent paths required to maintain the stem cell state. Stem Cells 23, 166-185 (2005).	
	43	Xu, et al. "BMP4 Initiates Human Embryonic Stem Cell Differentiation to Trophoblast." Nature Biotechnology (December 2002), Vol 20, pages 1261-1264.	
	44	Self-Renewal in Collaboration with STAT3." Cell (October 31, 2003), Vol. 115, pages 281-292.	
	45	Zwaka, et al. "Homologous Recombination in Human Embryonic Stem Cells" Nature Biotechnology (2003) Vol. 21.	
	46	Yusuf, et al. "Expression of Chemokine receptor CXCR4 during chick embryo development. Anat Embryol (Berl). 210(1):35-41, 2005.	

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Examiner Signature Date Considered \*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.